

INTERNATIONAL SEARCH REPORT

International application No. _____

PCT/US04/37789¹

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : C12Q 1/68; C07H 21/00; G01N 33/48

US CL : 435/6; 536/23.1; 702/19

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
U.S. : 435/6; 536/23.1; 702/19

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
Please See Continuation Sheet

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6,156,763 (KERWIN et al) 5 December 2000 (5.12.00), column 2, lines 40-42, lines 50-52, lines 63-67; column 3, lines 10-22, lines 42-43; column 4, lines 16-19..	1-4, 12, 17-27
---		5-11, 13-16
Y		5-11 and 13-16
Y	RANGAN et al. Induction of Duplex to G-quadruplex Transition in the c-myc Promoter Region by a Small Molecule. The Journal of Biological Chemistry. Vol. 276, pages 4640-4646, see entire article.	
A	SIDDIQUI-JAIN et al. Direct Evidence for a G-Quadruplex in a Promoter Region and Its Targeting with a Small Molecule to Repress c-MYC Transcription. PNAS. September 2002, pages 11593-11598, see entire article.	1, 3-5
A	IZBICKA et al. Effects of Cationic Porphyrins as G-Quaruples Interactive Agents in Human Tumor Cells. Cancer Research. February 1999, pages 639-644, see entire article.	1-27

☐ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

Special categories of cited documents:	
"A" document defining the general state of the art which is not considered to be of particular relevance	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"B" earlier application or patent published on or after the international filing date	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search

06 April 2005 (06.04.2005)

Name and mailing address of the ISA/US

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Continuation of B. FIELDS SEARCHED Item 3:

WEST; Google Scholar; Biosis, Medline

G-quadruplex, G-quartet, tetraplex, chemical footprinting, guanine repeats, modulators of G-quadruplex, c-myc, cancer treatment